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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/693,407	10/24/2003	Paul C. Roberts	MSFT-2817/301134.01	1473
41505 7590 11/23/2007 WOODCOCK WASHBURN LLP (MICROSOFT CORPORATION) CIRA CENTRE, 12TH FLOOR 2929 ARCH STREET PHILADELPHIA, PA 19104-2891			EXAMINER CHAI, LONGBIT	
			ART UNIT 2131	PAPER NUMBER
			MAIL DATE 11/23/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/693,407

Applicant(s)

ROBERTS ET AL.

Examiner

Longbit Chai

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on RCE on 10/5/2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-40 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-40 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 October 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Presently, pending claims are 1 – 40.

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/5/2007 has been entered.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 1 and 14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1 and 14 are indefinite because the claim language “determining, based on said user input and not on execution environment selection input, whether said user input is intended for said secured execution environment” is considered to be unclear in the context and scope of its meaning about what exactly to constitute “based on said user input and not on execution environment selection input”. Examiner notes according to the disclosure of the specification, the subject matter of inventions indicates: “determining whether the user input is intended for

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nexus (i.e. a guest operating system)" (SPEC: Page 14 / Para [0048]) – Therefore, Examiner notes the determination is indeed based on the user input on a selection of execution environment with nexus (i.e. a guest operating system) instead of host operating system.

Any other claims not addressed are rejected by virtue of their dependency should also be corrected.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraph of 35 U.S.C. 102 that forms the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1, 5, 7, 14, 18, 20, 27, 31 and 33 are rejected under 35 U.S.C. 102(e) as being anticipated by Griffin et al. (U.S. Patent 7,159,210).

As per claim 1, 14 and 27, Griffin teaches a method for providing a secure user interface to a secured execution environment on a system comprising said secured execution environment and an second execution environment (Griffin: Abstract), comprising:

accepting user input intended for either said secured execution environment or said second execution environment from a user input device (Griffin: Figure 2 / Element 211, Column 3 Line 8 – 11 and Column 5 Line 33 – 60: (a) either a host operating system or a guest operating system is provided depends on the level of security concerns (b) an application /

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process is also considered as a user entity because any application must be initially activated by a user);

determining, based on said user input and not on execution environment selection input, whether said user input is intended for said secured execution environment (Griffin: Column 5 Line 33 – 60: Also see 112-2nd rejection).

if said user input is not intended for said secured execution environment, transferring said user input to said second execution environment (Griffin: Column 5 Line 33 – 60).

As per claim 5, 18 and 31, Griffin teaches if said user input is intended for said secured execution environment, determining a specific destination entity in said secured execution environment for said user input; and transferring said user input to said specific destination entity (Griffin: Column 5 Line 33 – 60).

As per claim 7, 20 and 33, Griffin teaches interpreting said user input (Griffin: Column 3 Line 10 – 19).

5. Claims 11 – 13, 24 – 26 and 37 – 40 are rejected under 35 U.S.C. 102(b) as being anticipated by Boebert et al. (U.S. Patent 5,822,435).

As per claim 11, 24 and 37, Boebert teaches a method for providing a secure user interface to a secured execution environment on a system (Boebert : Figure 4) comprising said secured execution environment and an second execution environment (Boebert : Figure 2 / Element 63 & 69 and Column 4 Line 51 – 53), comprising:

accepting output from a specific source entity within said secured execution environment and not within said second execution environment (Boebert : Column 8 Line 45 – 50: (a) a trusted path mode is considered as a secured execution environment (b) the video RAM as the source of the output is qualified as “an output of a specific source entity within said secured execution environment” to meet the claim language because the video RAM is used only in trusted path mode and not in normal mode); and

securely transferring said output to an output device (Boebert : Column 8 Line 57 – 63 and Column 9 Line 53 – 65: (a) in a secure mode, an output is transferred and stored in to a video RAM, which is not used in a normal mode and outputted to a trusted window and (b) display the data on a trusted window, as taught by Boebert, can be considered as securely transferring the output to an output device).

As per claim 12, 25 and 38, Boebert teaches encrypting said data portion of said output (Boebert : Column 3 Line 26 – 28: data transferred from an output device is encrypted first).

As per claim 13, 26, and 39, Boebert teaches transferring said output to a curtained memory (Boebert : Column 8 Line 57 – 63: a curtained memory is interpreted as a protected memory area. In a secure mode, an output is transferred and stored in to a video RAM, which is not used in a normal mode and outputted to a trusted window).

As per claim 40, Boebert teaches a trusted rendering interface providing rendering said output from said specific source entity (Boebert : Column 8 Line 48 – 63: a trusted video manager and a trusted window for a specific user screen display); and where said secure transfer is a transfer of said rendered output (Boebert : Column 8 Line 57 – 63: a curtained

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memory is interpreted as a protected memory area. In a secure mode, an output is transferred and stored in to a video RAM, which is not used in a normal mode and outputted to a trusted window).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A person shall be entitled to a patent unless –

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 2 – 4, 6 – 10, 15 – 17, 19, 21 – 23, 28 – 30, 32 and 34 – 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Griffin et al. (U.S. Patent 7,159,210), in view of Boebert et al. (U.S. Patent 5,822,435).

As per claim 2, 15 and 28, Griffin does not disclose expressly said step of accepting user input from a user input device comprises decrypting said user input.

Boebert teaches said step of accepting user input from a user input device comprises decrypting said user input (Boebert : Column 3 Line 26 – 30).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Boebert within the system of Griffin because (a) Griffin teaches performing secured and non-secured computing operation in a compartmented operating environments (Griffin: Abstract), and (b) Boebert teaches ensuring of a secured

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protection mechanism when data transferred from the input / output devices over a secured and non-secured operation environments (Boebert: Abstract).

As per claim 3, 16 and 29, Griffin does not disclose expressly establishing a secure communications channel with said user input.

Boebert teaches establishing a secure communications channel with said user input (Boebert : Column 3 Line 26 – 30: the user input is encrypted first). See the same rationale of combination applied herein as above in rejecting the claim 2

As per claim 4, 17 and 30, Griffin does not disclose expressly establishing a secure communications channel with said user input.

Boebert teaches verifying said user input (Boebert : Column 6 Line 26 – 29). encrypted first). See the same rationale of combination applied herein as above in rejecting the claim 2.

As per claim 6, 19, Griffin does not disclose expressly providing window management functionality for managing at least one graphical user interface element owned by said specific destination entity.

Boebert teaches providing window management functionality for managing at least one graphical user interface element owned by said specific destination entity (Boebert : Column 6 Line 53 – 59 and Column 8 Line 57 – 63); and determining that said user input relates to said graphical user interface element (Boebert : Column Column 8 Line 60 – 63 and Figure 6 / Element 82). encrypted first). See the same rationale of combination applied herein as above in rejecting the claim 2.

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As per claim 8, 21 and 34, Griffin does not disclose expressly accepting output from a specific source entity in said secured execution environment.

Boebert teaches accepting output from a specific source entity in said secured execution environment (Boebert : Column 8 Line 45 – 50: a trusted path mode is considered as a secured execution environment); and securely transferring said output to an output device (Boebert : Column 8 Line 57 – 63: in a secure mode, an output is transferred and stored in to a video RAM, which is not used in a normal mode and outputted to a trusted window). encrypted first). See the same rationale of combination applied herein as above in rejecting the claim 2.

As per claim 9, 22 and 35, Griffin as modified teaches encrypting said data portion of said output (Boebert : Column 3 Line 26 – 28: data transfrerrde from an output device is encrypted first).

As per claim 10, 23 and 36, Griffin as modified teaches transferring said output to a curtained memory (Boebert : Column 8 Line 57 – 63: a curtained memory is interpreted as a protected memory area. In a secure mode, an output is transferred and stored in to a video RAM, which is not used in a normal mode and outputted to a trusted window).

As per claim 32, Griffin does not disclose expressly a trusted window manager that provides window management functionality for managing at least one graphical user interface element owned by said specific destination entity.

Boebert teaches a trusted window manager that provides window management functionality for managing at least one graphical user interface element owned by said specific destination entity (Boebert : Column 6 Line 53 – 59 and Column 8 Line 57 – 63 & Figure 6 /

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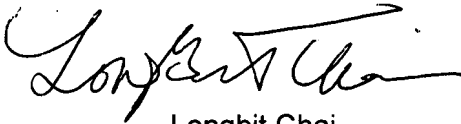
Element 82: a trusted window is owned by a specific destination entity); and where said trusted input manager determines that said user input relates to said graphical user interface element (Boebert : Column 6 Line 26 – 26 / Line 44 – 59 and Column 8 Line 57 – 63 & Figure 6 / Element 82). encrypted first). See the same rationale of combination applied herein as above in rejecting the claim 2

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Longbit Chai whose telephone number is 571-272-3788. The examiner can normally be reached on Monday-Friday 9:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz R. Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

A handwritten signature in black ink, appearing to read 'Longbit Chai', with a stylized flourish at the end.

Longbit Chai
Patent Examiner
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10/23/2007